Project No.
5638.617.014

March 7, 2014

Mr. Bronson Johnson
HPS Development Co. LP
1 California Street, Suite 2700
San Francisco, CA 94111

Subject: HPS – Innes Court and Hillpoint Park **WDID 238C332976**
San Francisco, California

2013-2014 SWPPP UPDATE (AMENDMENT NO. 001)

Reference: ENGEO; Storm Water Pollution Prevention Plan, Hunters Point Shipyard Development Project, Innes Avenue, San Francisco, California; Project No. 5638.617.014; February 7, 2014.

Dear Mr. Johnson:

This 2013-2014 Update (Amendment No. 001) to the project SWPPP has been prepared at the request of HPS Development for Innes Court and Hillpoint Park of the Hunters Point Shipyard redevelopment project in San Francisco, California. This update was prepared to include the proposed construction work for the Innes Court and Hillpoint Park and to satisfy the State Water Resources Control Board (SWRCB) General Construction Permit Order No. 2009-009 DWQ. As a result, the 2013-2014 SWPPP Update identifies the following:

- Site-Specific Erosion and Sediment Control Plans (ESCP)
- Construction Schedule
- SWPPP BMP
- SWPPP Amendment Log

EROSION AND SEDIMENT CONTROL PLAN

The site-specific Erosion and Sediment Control Plan (ESCP) for Innes Court and Hillpoint Park at Hunters Point Shipyard has been prepared by ENGEO (attached) to reflect perimeter and inlet protection BMPs specific to the subject area. The attached plan (Sheets ER1.0, ER2.0, ER3.0 and ER4.0) should be added to Appendix S of the project SWPPP and incorporated along with the "Erosion Control Plans (2014)" prepared for the Construction Phase of Innes Court and Hillpoint Park at Hunters Point Shipyard by ENGEO dated February 7, 2014.

The Erosion and Sediment Control Plans for the project should also be displayed on the wall in the construction trailer and actively updated to reflect current site conditions.

CONSTRUCTION SCHEDULE

The preliminary construction schedule for Innes Court and Hillpoint Park at Hunters Point Shipyard, as provided by Lennar, reflects anticipated start date and project completion date as follows:

- 04/01/14 - Start Construction of Innes Court and Hillpoint Park
- 10/15/14 - Finish Construction of Innes Court and Hillpoint Park

SWPPP BMPs

Construction of Innes Court and Hillpoint Park at Hunters Point Shipyard should comply with the Best Management Practices outlined in the project SWPPP, which include but are not limited to:

- WM-1 Material Delivery and Storage (Section 7.0)
- WM-2 Material Use (Section 7.0)
- WM-3 Stockpile Management (Section 7.0)
- WM-4 Spill Prevention and Control (Section 7.0)
- WM-5 Solid Waste Management (Section 7.0)
- WM-6 Hazardous Waste Management (Section 7.0)
- WM-8 Concrete Waste Management (Section 7.0)
- WM-9 Sanitary Facilities (Section 7.0)
- WM-10 Liquid Waste Management (Section 7.0)
- NS-1 Water Conservation Practices (Section 7.0)
- NS-6 Illicit Connection/Discharge (Section 7.0)
- NS-7 Potable Water and Irrigation (Section 7.0)
- NS-9 Vehicle and Equipment Fueling (Section 7.0)
- SE-1 Silt Fence (Section 9.0)
- SE-5 Fiber Rolls (Section 9.0)
- SE-7 Street Sweeping and Vacuuming (Section 9.0)
- SE-10 Storm Drain Inlet Protection (Section 9.0)
- TC-1 Stabilized Construction Entrance/Exit (Section 9.0)

SWPPP AMENDMENT LOG – AMENDMENT NO. 001

The SWPPP Amendment Log presented below applies to Amendment No. 001 only. The complete SWPPP Amendment Log for the project also included as an attachment should be inserted into Appendix F of the project SWPPP (Reference).

SWPPP AMENDMENT LOG

Amendment No.	Date	Describe Change	Prepared By
001	03/07/14	1. Revised Construction Schedule • 04/01/14 - Start Construction of Innes Court and Hillpoint Park • 10/15/14 – Finish Construction of Innes Court and Hillpoint Park 2. Erosion and Sediment Control Plans • Innes Court and Hillpoint Park at Hunters Point Shipyard (Sheets ER1.0, ER2.0, ER3.0, and ER4.0)	HPS Development / ENGEO

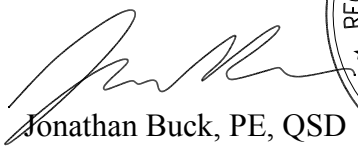
CLOSING

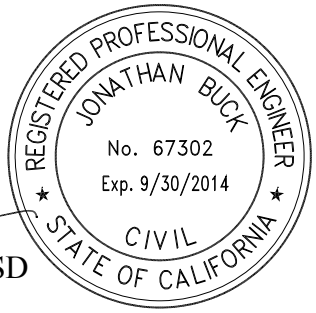
This 2013-2014 SWPPP Update (Amendment No. 001) should be archived in the SWPPP. If you have any questions regarding the contents of this amendment, please call.

Sincerely,

ENGEO Incorporated

Alan Moreira
am/jb/jf





Jonathan Buck, PE, QSD

Attachments: Innes Court and Hillpoint Park ESCP
SWPPP Amendment Log

ENGEO INCORPORATED

Innes Court and Hillpoint Park @ Hunters Point Shipyard Development Project
Erosion and Sediment Control Plans (Sheets ER1.00, ER2.00, ER3.00 and ER4.00)

EROSION AND SEDIMENT CONTROL PLAN
PARCEL 'A', HUNTERS POINT SHIPYARD
PHASE ONE OPEN SPACE
SAN FRANCISCO, CALIFORNIA

BEST MANAGEMENT PRACTICES NOTES
RISK LEVEL 2 REQUIREMENTS

THE FOLLOWING NOTES INCLUDE MINIMUM REQUIREMENTS EXCERPTED FROM ATTACHMENT D OF CA STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 2009-0009 DWQ, NPDES NO. CAS000002 FOR A RISK LEVEL 2 SITE.

A. EFFLUENT STANDARDS

1. STORMWATER DISCHARGES AND AUTHORIZED NON-STORMWATER DISCHARGES REGULATED BY SWRCB ORDER NO. 2009-0009 DWQ SHALL NOT CONTAIN A HAZARDOUS SUBSTANCE EQUAL TO OR IN EXCESS OF REPORTABLE QUANTITIES ESTABLISHED IN 40 C.F.R. §§117.3 AND 302.4, UNLESS A SEPARATE NPDES PERMIT HAS BEEN ISSUED TO REGULATE THOSE DISCHARGES.
2. DISCHARGERS SHALL MINIMIZE OR PREVENT POLLUTANTS IN STORM WATER DISCHARGES AND AUTHORIZED NON-STORMWATER DISCHARGES THROUGH THE USE OF CONTROLS, STRUCTURES, AND MANAGEMENT PRACTICES THAT ACHIEVE BAT FOR TOXIC AND NON-CONVENTIONAL POLLUTANTS AND BCT FOR CONVENTIONAL POLLUTANTS.
3. NUMERIC - RISK LEVEL 2 DISCHARGERS ARE SUBJECT TO A PH NAL OF 6.5-8.5, AND A TURBIDITY NAL OF 250 NTU.

B. GOOD SITE MANAGEMENT "HOUSEKEEPING"

CONSTRUCTION MATERIALS
1. MAINTAIN AN INVENTORY OF THE PRODUCTS USED AND/OR EXPECTED TO BE USED AND THE END PRODUCTS THAT ARE PRODUCED AND/OR EXPECTED TO BE PRODUCED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E., POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
2. COVER AND BERM LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E., SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.).
3. STORE CHEMICALS IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
4. MINIMIZE EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E., POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
5. IMPLEMENT BMPS TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS.
6. APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN MATERIAL STORAGE AREA.

WASTE MANAGEMENT
1. PREVENT DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM.
2. ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER.
3. CLEAN OR REPLACE SANITATION FACILITIES AND INSPECTING THEM REGULARLY FOR LEAKS AND SPILLS.
4. COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT.
5. PREVENT DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER.
6. TRASH RECEPTACLES WILL BE PROVIDED THROUGHOUT THE SITE AND UTILIZED BY ALL WORKERS FOR MISCELLANEOUS TRASH. SITE REFUSE WILL BE PICKED UP ON A WEEKLY BASIS OR AS OFTEN AS NECESSARY IN ORDER TO KEEP THE SITE CLEAN. FAILURE TO COMPLY WITH SITE CLEANUP AND/OR BMPS MAY RESULT IN THE ISSUANCE OF A CORRECTIVE NOTICE, CITATION, OR PROJECT STOP WORK ORDER.
7. CONTAIN AND SECURELY PROTECT STOCKPILED WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.
8. IMPLEMENT PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS.
9. DEVELOP A SPILL RESPONSE AND IMPLEMENTATION ELEMENT OF THE SWPPP PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES. THE SWPPP SHALL REQUIRE THAT:
   i. EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE AND THAT SPILLS AND LEAKS SHALL BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY; AND
   ii. APPROPRIATE SPILL RESPONSE PERSONNEL ARE ASSIGNED AND TRAINED.
10. ENSURE THE CONTAINMENT OF CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO THE SURROUNDING AREAS.

VEHICLE STORAGE AND MAINTENANCE
1. PREVENT OIL, GREASE, OR FUEL TO LEAK IN TO THE GROUND, STORM DRAINS OR SURFACE WATERS.
2. PLACE ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.
3. APPLY GRAVEL CONSTRUCTION ENTRANCE MATERIAL WITHIN THE VEHICLE STORAGE AREA.
4. CLEAN LEAKS IMMEDIATELY AND DISPOSING OF LEAKED MATERIALS PROPERLY.
5. SUBCONTRACTORS SHOULD BE NOTIFIED THAT THEY ARE TO PARK ON PAVED OR DESIGNATED GRAVEL AREAS AND NOT DRIVE INTO UN-PAVED AREAS IN ORDER TO AVOID TRACKING DIRT ONTO PAVEMENT.

LANDSCAPE MATERIALS
1. CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOT ACTIVELY BEING USED.
2. CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOT ACTIVELY BEING USED.
3. DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.
4. APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURE RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
5. STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.

POTENTIAL POLLUTANTS
1. DISCHARGERS SHALL MAINTAIN A LIST OF POTENTIAL POLLUTANT SOURCES AND IDENTIFY ANY AREAS OF THE SITE WHERE ADDITIONAL BMPS ARE NECESSARY TO REDUCE OR PREVENT POLLUTANTS IN STORMWATER DISCHARGES AND AUTHORIZED NON-STORMWATER DISCHARGES. THIS POTENTIAL POLLUTANT LIST SHALL BE KEPT WITH THE SWPPP AND SHALL IDENTIFY ALL NON-VISIBLE POLLUTANTS WHICH ARE KNOWN, OR SHOULD BE KNOWN, TO OCCUR ON THE CONSTRUCTION SITE.

DUST CONTROL
1. DISCHARGERS SHALL IMPLEMENT GOOD HOUSEKEEPING MEASURES ON THE CONSTRUCTION SITE TO CONTROL THE AIR DEPOSITION OF SITE MATERIALS AND FROM SITE OPERATIONS. SUCH PARTICULATES CAN INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT, NUTRIENTS, TRASH, METALS, BACTERIA, OIL AND GREASE AND ORGANICS.
2. CONSTRUCTION TRAFFIC SPEEDS WILL BE LIMITED TO 15 MPH, OR LESS, AS REQUIRED BY THE CONTRACTOR.

C. NON-STORM WATER MANAGEMENT

1. DISCHARGERS SHALL IMPLEMENT MEASURES TO CONTROL ALL NON-STORMWATER DISCHARGES DURING CONSTRUCTION.
2. DISCHARGERS SHALL WASH VEHICLES IN SUCH A MANNER AS TO PREVENT NONSTORMWATER DISCHARGES TO SURFACE WATERS OR MS4 DRAINAGE SYSTEMS.
3. DISCHARGERS SHALL CLEAN STREETS IN SUCH A MANNER AS TO PREVENT UNAUTHORIZED NON-STORMWATER DISCHARGES FROM REACHING SURFACE WATER OR MS4 DRAINAGE SYSTEMS.

D. EROSION CONTROL

1. THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF EROSION CONTROL FOR THE PROJECT AND SHALL INSTALL AND MAINTAIN ANY DEVICES AND MEASURES NECESSARY TO THE SATISFACTION OF THE CITY OR COUNTY ENGINEER AND THE RWQCB.
2. EROSION CONTROL MEASURES WILL BE PROPERLY IN PLACE YEAR-ROUND. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE DAY RAIN PROBABILITY EXCEEDS 50 PERCENT.
3. EXCAVATING, FILLING, BACKFILLING AND GRADING WORK SHALL NOT BE PERFORMED DURING UNFAVORABLE WEATHER CONDITIONS. WHEN WORK IS INTERRUPTED BY RAIN, EXCAVATING, FILLING, BACKFILLING, AND GRADING WORK SHALL NOT BE RESUMED UNTIL THE SITE AND SOIL CONDITIONS ARE SUITABLE.
4. ALL WORK SHOULD BE SCHEDULED TO PRESERVE EXISTING VEGETATION (PEV) AND DISTURB THE SMALLEST PORTIONS POSSIBLE AT ANY ONE TIME. DISTURBED PORTIONS SHOULD BE STABILIZED AS SOON AS GRADING WORK IS COMPLETE.
5. DISCHARGERS SHALL IMPLEMENT EFFECTIVE WIND EROSION CONTROL.
6. DISCHARGERS SHALL PROVIDE EFFECTIVE SOIL COVER FOR INACTIVE AREAS AND ALL FINISHED SLOPES, OPEN SPACE, UTILITY BACKFILL, AND COMPLETED LOTS. INACTIVE AREAS OF CONSTRUCTION ARE AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE RE-DISTURBED FOR AT LEAST 14 DAYS. APPLICABLE SOIL COVER INCLUDES GRAVEL, CONCRETE AND SOD, AS WELL AS POLYACRYLAMIDE, EROSION CONTROL MATTING, MULCH WITH TACKIFIER, BONDED FIBER MATRIX, OR HYDROSEEDING. REFER TO THE TABLES ON THIS NOTES SHEET FOR APPLICATION RATES DEPENDING UPON PRODUCT UTILIZED.
7. SLOPES WILL BE GRADED SO THAT WATER IS DIRECTED AWAY FROM THE SLOPE FACES AT THE END OF EACH WORKING DAY WHEN A CHANCE OF RAIN IS FORECAST.
8. ALL RILLS, GULLIES, ETC. WILL BE PROMPTLY REPAIRED AS PRACTICAL BY REGRADING OR INSTALLATION OF SOIL, GRAVEL OR SANDBAGS. REPAIRED RILLS SHOULD BE PROTECTED WITH EROSION CONTROL MATTING, BONDED FIBER MATRIX OR POLYACRYLAMIDE AND MULCH, OR EQUIVALENT (SEE APPLICATION TABLES).
9. DISCHARGERS SHALL LIMIT THE USE OF PLASTIC MATERIALS WHEN MORE SUSTAINABLE, ENVIRONMENTALLY FRIENDLY ALTERNATIVES EXIST. WHERE PLASTIC MATERIALS ARE DEEMED NECESSARY, THE DISCHARGER SHALL CONSIDER THE USE OF PLASTIC MATERIALS RESISTANT TO SOLAR DEGRADATION.

E. SEDIMENT CONTROLS

1. DISCHARGERS SHALL ESTABLISH AND MAINTAIN EFFECTIVE BMP PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES FROM THE SITE YEAR-ROUND.
2. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF SITE WORK. ALL CONSTRUCTION TRAFFIC ENTERING THE PAVED ROAD MUST CROSS THIS ENTRANCE. THE CONSTRUCTION ENTRANCE WILL CONSIST OF AN 8-INCH LAYER OF 3- TO 6-INCH COARSE AGGREGATE GRAVEL EXTENDING A MINIMUM DISTANCE OF 50 FEET AT EACH VEHICLE ACCESS POINT FROM EXISTING PAVED STREETS. SPRINKLING FOR DUST CONTROL SHOULD NOT BE UNDERTAKEN FOR AN ADDITIONAL 50 FEET FROM THE GRAVEL ENTRANCE. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY.
3. PAVED STREETS WILL BE MONITORED DAILY AND FREQUENTLY CLEANED. SOIL TRACKED ONTO THE STREET, OR EARTH MATERIAL AND DEBRIS STOCKPILED IN THE STREET, WILL BE PICKED UP BY A LOADER BUCKET AND/OR HAND SHOVELED WHEN OBSERVED. STREETS WILL ALSO BE SWEPT ON AT LEAST A WEEKLY BASIS OR MORE OFTEN, AS NEEDED, TO MAINTAIN CONTINUOUS LITTER AND TRACKING CONTROL. STREET WASHING WILL NOT BE DONE.
4. ALL DRAIN INLETS WILL BE PROTECTED AS THEY ARE COMPLETED, DURING THE ENTIRE COURSE OF CONSTRUCTION.
5. IF SEDIMENT BASINS ARE TO BE USED, DISCHARGERS SHALL, AT MINIMUM, DESIGN SEDIMENT BASINS ACCORDING TO THE METHOD PROVIDED IN CASQA'S CONSTRUCTION BMP GUIDANCE HANDBOOK.
6. AFTER EACH RAINSTORM, SILT AND DEBRIS SHALL BE REMOVED FROM CHECK DAMS, STRAW ROLLS/WATTLES, SILT FENCES, AND SILT SACKS. SEDIMENT TRAPS/BASINS SHOULD ALSO BE OBSERVED AND PUMPED DRY AS NECESSARY TO ASSURE PROPER FUNCTION, AND CAPACITY. ANY REMOVED SEDIMENT SHOULD BE PLACED AWAY FROM CONCENTRATED FLOW (DRAINS, DITCHES, CRACKS) AT A SUITABLE ONSITE LOCATION OR REMOVED TO AN APPROPRIATE DISPOSAL SITE.
7. INTERIOR FIBER ROLLS/WATTLES MAY BE REMOVED AS THE AREA COMES UNDER CONSTRUCTION FOR FINISH GRADING AND LANDSCAPING INSTALLATION. PERIMETER PROTECTION SHOULD BE LEFT IN PLACE YEAR-ROUND.
8. GRAVEL CHECK DAMS MAY BE REMOVED FROM UNPAVED ROADWAYS AS THEY COME UNDER CONSTRUCTION.
9. RISK LEVEL 2 DISCHARGERS SHALL APPLY LINEAR SEDIMENT CONTROLS ALONG THE TOE OF THE SLOPE, FACE OF THE SLOPE, AND AT THE GRADE BREAKS OF EXPOSED SLOPES TO COMPLY WITH SHEET FLOW LENGTHS IN ACCORDANCE WITH TABLE 1.

TABLE 1
CRITICAL SLOPE/FLOW LENGTH COMBINATIONS

SLOPE PERCENTAGE	SHEET FLOW LENGTH NOT TO EXCEED
0-25%	20 FEET
25-50%	15 FEET
OVER 50%	10 FEET

F. RUN-ON AND RUNOFF CONTROLS

1. DISCHARGERS SHALL EFFECTIVELY MANAGE ALL RUN-ON, ALL RUNOFF WITHIN THE SITE, AND ALL RUNOFF THAT DISCHARGES OFF THE SITE. RUN-ON FROM OFFSITE SHALL BE DIRECTED AWAY FROM ALL DISTURBED AREAS OR SHALL COLLECTIVELY BE IN COMPLIANCE WITH THE EFFLUENT LIMITATIONS IN THIS GENERAL PERMIT.

G. INSPECTION, MAINTENANCE AND REPAIR

1. INSPECTION, MAINTENANCE, REPAIR AND SAMPLING ACTIVITIES AT THE PROJECT LOCATION SHALL BE PERFORMED OR SUPERVISED BY A QUALIFIED SWPPP PRACTITIONER (QSP) REPRESENTING THE DISCHARGER. THE QSP MAY DELEGATE ANY OR ALL OF THESE ACTIVITIES TO AN EMPLOYEE TRAINED TO DO THE TASK(S) APPROPRIATELY, BUT SHALL ENSURE ADEQUATE DEPLOYMENT.
2. INSPECTIONS AND OBSERVATIONS SHALL OCCUR WEEKLY, AND AT LEAST ONCE EACH 24-HOUR PERIOD DURING EXTENDED STORM EVENTS, TO IDENTIFY AND RECORD BMPS THAT NEED MAINTENANCE TO OPERATE EFFECTIVELY, THAT HAVE FAILED, OR THAT COULD FAIL TO OPERATE AS INTENDED.
3. UPON IDENTIFYING FAILURES OR OTHER SHORTCOMINGS, AS DIRECTED BY THE QSP, REPAIRS OR DESIGN CHANGES TO BMPS SHOULD BE IMPLEMENTED WITHIN 72 HOURS OF IDENTIFICATION AND COMPLETE THE CHANGES AS SOON AS POSSIBLE.
4. FOR EACH INSPECTION REQUIRED, AN INSPECTION CHECKLIST SHALL BE COMPLETED, USING A FORM PROVIDED BY THE STATE WATER BOARD OR REGIONAL WATER BOARD OR IN AN ALTERNATIVE FORMAT. THE CHECKLIST SHOULD BE INSERTED INTO THE FIELD SWPPP BINDER AND KEPT FOR A PERIOD OF 3 YEARS.

H. RAIN EVENT ACTION PLAN

1. THE DISCHARGER SHALL ENSURE A QSP DEVELOP A RAIN EVENT ACTION PLAN (REAP) 48 HOURS PRIOR TO ANY LIKELY PRECIPITATION EVENT. A LIKELY PRECIPITATION EVENT IS ANY WEATHER PATTERN THAT IS FORECAST TO HAVE A 50% OR GREATER PROBABILITY OF PRODUCING PRECIPITATION IN THE PROJECT AREA. THE DISCHARGER SHALL ENSURE A QSP OBTAIN A PRINTED COPY OF PRECIPITATION FORECAST INFORMATION FROM THE NATIONAL WEATHER SERVICE FORECAST OFFICE (E.G., BY ENTERING THE ZIP CODE OF THE PROJECT'S LOCATION AT HTTP://WWW.SRH.NOAA.GOV/FORECAST).
2. THE DISCHARGER SHALL ENSURE A QSP DEVELOP THE REAPS FOR ALL PHASES OF CONSTRUCTION (I.E., GRADING AND LAND DEVELOPMENT, STREETS AND UTILITIES, VERTICAL CONSTRUCTION, FINAL LANDSCAPING AND SITE STABILIZATION).
3. THE DISCHARGER SHALL ENSURE A QSP BEGIN IMPLEMENTATION AND MAKE THE REAP AVAILABLE ONSITE NO LATER THAN 24 HOURS PRIOR TO THE LIKELY PRECIPITATION EVENT.

I. RISK LEVEL 2 MONITORING AND REPORTING REQUIREMENTS

TABLE 2
SUMMARY OF MONITORING REQUIRMENTS

RISK LEVEL	VISUAL INSPECTIONS					SAMPLE COLLECTION	
	QUARTERLY NON-STORM WATER DISCHARGE	PRE-STORM EVENT BASELINE	PRE-STORM EVENT REAP	DAILY STORM BMP	POST STORM	STORM WATER DISCHARGE	RECEIVING WATER
2	X	X	X	X	X	X	

VISUAL MONITORING REQUIREMENTS FOR QUALIFYING RAIN EVENTS
1. RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT) STORM WATER DISCHARGES AT ALL DISCHARGE LOCATIONS WITHIN TWO BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT.
2. RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT) THE DISCHARGE OF STORED OR CONTAINED STORM WATER THAT IS DERIVED FROM AND DISCHARGED SUBSEQUENT TO A QUALIFYING RAIN EVENT PRODUCING PRECIPITATION OF 1/2 INCH OR MORE AT THE TIME OF DISCHARGE. STORED OR CONTAINED STORM WATER THAT WILL LIKELY DISCHARGE AFTER OPERATING HOURS DUE TO ANTICIPATED PRECIPITATION SHALL BE OBSERVED PRIOR TO THE DISCHARGE DURING OPERATING HOURS.
3. RISK LEVEL 2 DISCHARGERS SHALL CONDUCT VISUAL OBSERVATIONS (INSPECTIONS) DURING BUSINESS HOURS ONLY.
4. RISK LEVEL 2 DISCHARGERS SHALL RECORD THE TIME, DATE AND RAIN GAUGE READING OF ALL QUALIFYING RAIN EVENTS.
5. WITHIN 2 BUSINESS DAYS (48 HOURS) PRIOR TO EACH QUALIFYING RAIN EVENT, RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT):
   i. ALL STORM WATER DRAINAGE AREAS TO IDENTIFY ANY SPILLS, LEAKS, OR UNCONTROLLED POLLUTANT SOURCES. IF NEEDED, THE DISCHARGER SHALL IMPLEMENT APPROPRIATE CORRECTIVE ACTIONS.
   ii. ALL BMPS TO IDENTIFY WHETHER THEY HAVE BEEN PROPERLY IMPLEMENTED IN ACCORDANCE WITH THE SWPPP. IF NEEDED, THE DISCHARGER SHALL IMPLEMENT APPROPRIATE CORRECTIVE ACTIONS.
   iii. ANY STORM WATER STORAGE AND CONTAINMENT AREAS TO DETECT LEAKS AND ENSURE MAINTENANCE OF ADEQUATE FREEBOARD.
6. FOR THE VISUAL OBSERVATIONS (INSPECTIONS) DESCRIBED IN 4.I AND 4.II ABOVE, RISK LEVEL 2 DISCHARGERS SHALL OBSERVE THE PRESENCE OR ABSENCE OF FLOATING AND SUSPENDED MATERIALS, A SHEEN ON THE SURFACE, DISCOLORATIONS, TURBIDITY, ODORS, AND SOURCE(S) OF ANY OBSERVED POLLUTANTS.
7. WITHIN TWO BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT, RISK LEVEL 2 DISCHARGERS SHALL CONDUCT POST RAIN EVENT VISUAL OBSERVATIONS (INSPECTIONS) TO (1) IDENTIFY WHETHER BMPS WERE ADEQUATELY DESIGNED, IMPLEMENTED, AND EFFECTIVE, AND (2) IDENTIFY ADDITIONAL BMPS AND REVISE THE SWPPP ACCORDINGLY.
8. RISK LEVEL 2 DISCHARGERS SHALL MAINTAIN ON-SITE RECORDS OF ALL VISUAL OBSERVATIONS (INSPECTIONS), PERSONNEL PERFORMING THE OBSERVATIONS, OBSERVATION DATES, WEATHER CONDITIONS, LOCATIONS OBSERVED, AND CORRECTIVE ACTIONS TAKEN IN RESPONSE TO THE OBSERVATIONS.

WATER QUALITY SAMPLING AND ANALYSIS FOR QUALIFYING RAIN EVENTS
1. RISK LEVEL 2 DISCHARGERS SHALL COLLECT STORMWATER GRAB SAMPLES FROM SAMPLING LOCATIONS, AS DEFINED IN THE FOLLOWING SECTION. THE STORMWATER GRAB SAMPLE(S) OBTAINED SHALL BE REPRESENTATIVE OF THE FLOW AND CHARACTERISTICS OF THE DISCHARGE.
2. AT MINIMUM, RISK LEVEL 2 DISCHARGERS SHALL COLLECT 3 SAMPLES PER DAY OF THE QUALIFYING EVENT.
3. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT THE GRAB SAMPLES COLLECTED OF STORED OR CONTAINED STORMWATER ARE FROM DISCHARGES SUBSEQUENT TO A QUALIFYING RAIN EVENT (PRODUCING PRECIPITATION OF 1/2 INCH OR MORE AT THE TIME OF DISCHARGE).
4. RISK LEVEL 2 DISCHARGERS SHALL ANALYZE THEIR EFFLUENT SAMPLES FOR:
   i. PH AND TURBIDITY.
   ii. ANY ADDITIONAL PARAMETERS FOR WHICH MONITORING IS REQUIRED BY THE REGIONAL WATER BOARD.

STORMWATER DISCHARGE WATER QUALITY SAMPLING LOCATIONS
1. RISK LEVEL 2 DISCHARGERS SHALL PERFORM SAMPLING AND ANALYSIS OF STORMWATER DISCHARGES TO CHARACTERIZE DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE ENTIRE PROJECT DISTURBED AREA.
2. RISK LEVEL 2 DISCHARGERS SHALL COLLECT EFFLUENT SAMPLES AT ALL DISCHARGE POINTS WHERE STORMWATER IS DISCHARGED OFF-SITE.
3. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT STORMWATER DISCHARGE COLLECTED AND OBSERVED REPRESENT THE EFFLUENT IN EACH DRAINAGE AREA BASED ON VISUAL OBSERVATION OF THE WATER AND UPSTREAM CONDITIONS.
4. RISK LEVEL 2 DISCHARGERS SHALL MONITOR AND REPORT SITE RUN-ON FROM SURROUNDING AREAS IF THERE IS REASON TO BELIEVE RUN-ON MAY CONTRIBUTE TO AN EXCEEDANCE OF NALS OR NELS.
5. RISK LEVEL 2 DISCHARGERS WHO DEPLOY AN ATS ON THEIR SITE, OR A PORTION ON THEIR SITE, SHALL COLLECT ATS EFFLUENT SAMPLES AND MEASUREMENTS FROM THE DISCHARGE PIPE OR ANOTHER LOCATION REPRESENTATIVE OF THE NATURE OF THE DISCHARGE.
6. RISK LEVEL 2 DISCHARGERS SHALL SELECT ANALYTICAL TEST METHODS FROM THE LIST PROVIDED IN TABLE 3 BELOW.

STORMWATER SAMPLE COLLECTION AND REPORTING
1. RISK LEVEL 2 DISCHARGERS SHALL REFER TO TABLE 3 BELOW FOR TEST METHODS, DETECTION LIMITS, AND REPORTING UNITS.
2. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT TESTING LABORATORIES WILL RECEIVE SAMPLES WITHIN 48 HOURS OF THE PHYSICAL SAMPLING (UNLESS OTHERWISE REQUIRED BY THE LABORATORY), AND SHALL USE ONLY THE SAMPLE CONTAINERS PROVIDED BY THE LABORATORY TO COLLECT AND STORE SAMPLES.
3. RISK LEVEL 2 DISCHARGERS SHALL DESIGNATE AND TRAIN PERSONNEL TO COLLECT, MAINTAIN, AND SHIP SAMPLES IN ACCORDANCE WITH THE SURFACE WATER AMBIENT MONITORING PROGRAMS (SWAMP) 2008 QUALITY ASSURANCE PROGRAM PLAN (QAPRP).
4. PH: RISK LEVEL 2 DISCHARGERS SHALL PERFORM PH ANALYSIS ON-SITE WITH A CALIBRATED PH METER OR A PH TEST KIT. RISK LEVEL 2 DISCHARGERS SHALL RECORD PH MONITORING RESULTS ON PAPER AND RETAIN THESE RECORDS.
5. TURBIDITY: RISK LEVEL 2 DISCHARGERS SHALL PERFORM TURBIDITY ANALYSIS USING A CALIBRATED TURBIDITY METER (TURBIDIMETER), EITHER ON-SITE OR AT AN ACCREDITED LAB. ACCEPTABLE TEST METHODS INCLUDE STANDARD METHOD 2130 OR USEPA METHOD 180.1. THE RESULTS WILL BE RECORDED IN THE SITE LOG BOOK IN NEPHELOMETRIC TURBIDITY UNITS (NTU).
6. IN THE EVENT THAT ANY EFFLUENT SAMPLE EXCEEDS AN APPLICABLE NAL, RISK LEVEL 2 DISCHARGERS SHALL ELECTRONICALLY SUBMIT ALL STORM EVENT SAMPLING RESULTS TO THE STATE WATER BOARD NO LATER THAN 10 DAYS AFTER THE CONCLUSION OF THE STORM EVENT. THE REGIONAL BOARDS HAVE THE AUTHORITY TO REQUIRE THE SUBMITTAL OF AN NAL EXCEEDANCE REPORT.
7. RISK LEVEL 2 DISCHARGERS SHALL CERTIFY EACH NAL EXCEEDANCE REPORT IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR CONSTRUCTION ACTIVITY.
8. RISK LEVEL 2 DISCHARGERS SHALL RETAIN AN ELECTRONIC OR PAPER COPY OF EACH NAL EXCEEDANCE REPORT FOR A MINIMUM OF THREE YEARS AFTER THE DATE THE ANNUAL REPORT IS FILED.
9. RISK LEVEL 2 DISCHARGERS SHALL INCLUDE IN THE NAL EXCEEDANCE REPORT:
   i. THE ANALYTICAL METHOD(S), METHOD REPORTING UNIT(S), AND METHOD DETECTION LIMIT(S) OF EACH ANALYTICAL PARAMETER (ANALYTICAL RESULTS THAT ARE LESS THAN THE METHOD DETECTION LIMIT SHALL BE REPORTED AS "LESS THAN THE METHOD DETECTION LIMIT").
   ii. THE DATE, PLACE, TIME OF SAMPLING, VISUAL OBSERVATION (INSPECTIONS), AND/OR MEASUREMENTS, INCLUDING PRECIPITATION.
   iii. A DESCRIPTION OF THE CURRENT BMPS ASSOCIATED WITH THE EFFLUENT SAMPLE THAT EXCEEDED THE NAL AND THE PROPOSED CORRECTIVE ACTIONS TAKEN.

TABLE 3
RISK LEVEL 2 TEST METHODS, DETECTION LIMITS, REPORTING UNITS AND APPLICABLE NALS/NELS

PARAMETER	TEST METHOD/ PROTOCOL	DISCHARGE TYPE	MINIMUM DETECTION LIMIT	REPORTING UNITS	NUMERIC ACTION LEVEL
PH	FIELD TEST WITH CALIBRATED PORTABLE INSTRUMENT	RISK LEVEL 2 DISCHARGES	0.2	PH UNITS	LOWER NAL = 6.5 UPPER NAL = 8.5
TURBIDITY	EPA 0180.1 AND/OR FIELD TEST WITH CALIBRATED PORTABLE INSTRUMENT	RISK LEVEL 2 DISCHARGES OTHER THAN ATS	1	NTU	250 NTU
		FOR ATS DISCHARGES	1	NTU	N/A

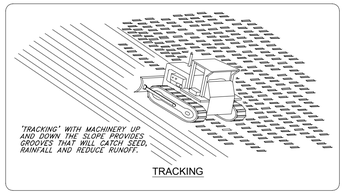
SHEET INDEX

SHEET NUMBER	TITLE
ER1.0	NOTES
ER2.0	BMP DETAILS
ER3.0	PLAN - HILLPOINT PARK
ER4.0	PLAN - HILLSIDE CENTRAL PARK

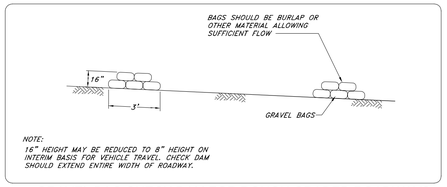
VISUAL OBSERVATION AND SAMPLE COLLECTION EXEMPTIONS
1. RISK LEVEL 2 DISCHARGERS ARE NOT REQUIRED TO PHYSICALLY COLLECT SAMPLES AND CONDUCT VISUAL OBSERVATION (INSPECTIONS) UNDER THE FOLLOWING CONDITIONS:
   -DURING DANGEROUS WEATHER CONDITIONS SUCH AS FLOODING AND ELECTRICAL STORMS.
   -OUTSIDE OF SCHEDULED SITE BUSINESS HOURS.
2. IF NO REQUIRED VISUAL OBSERVATIONS (INSPECTIONS) ARE COLLECTED DUE TO THESE EXCEPTIONS, RISK LEVEL 2 DISCHARGERS SHALL INCLUDE AN EXPLANATION IN THEIR SWPPP AND IN THE ANNUAL REPORT DOCUMENTING WHY THE SAMPLING OR VISUAL OBSERVATIONS (INSPECTIONS) WERE NOT CONDUCTED.

NON-STORMWATER DISCHARGE MONITORING REQUIREMENTS
1. VISUAL MONITORING REQUIREMENTS:
   i. RISK LEVEL 2 DISCHARGERS SHALL VISUALLY OBSERVE (INSPECT) EACH DRAINAGE AREA FOR THE PRESENCE OF (OR INDICATIONS OF PRIOR) UNAUTHORIZED AND AUTHORIZED NON-STORM WATER DISCHARGES AND THEIR SOURCES.
   ii. RISK LEVEL 2 DISCHARGERS SHALL CONDUCT ONE VISUAL OBSERVATION (INSPECTION) QUARTERLY IN EACH OF THE FOLLOWING PERIODS: JANUARY- MARCH, APRIL-JUNE, JULY-SEPTEMBER, AND OCTOBER-DECEMBER. VISUAL OBSERVATION (INSPECTIONS) ARE ONLY REQUIRED DURING DAYLIGHT HOURS (SUNRISE TO SUNSET).
   iii. RISK LEVEL 2 DISCHARGERS SHALL ENSURE THAT VISUAL OBSERVATIONS (INSPECTIONS) DOCUMENT THE PRESENCE OR EVIDENCE OF ANY NON- STORM WATER DISCHARGE (AUTHORIZED OR UNAUTHORIZED), POLLUTANT CHARACTERISTICS (FLOATING AND SUSPENDED MATERIAL, SHEEN, DISCOLORATION, TURBIDITY, ODOR, ETC.), AND SOURCE. RISK LEVEL 2 DISCHARGERS SHALL MAINTAIN ON-SITE RECORDS INDICATING THE PERSONNEL PERFORMING THE VISUAL OBSERVATION (INSPECTIONS), THE DATES AND APPROXIMATE TIME EACH DRAINAGE AREA AND NON-STORM WATER DISCHARGE WAS OBSERVED, AND THE RESPONSE TAKEN TO ELIMINATE UNAUTHORIZED NON-STORM WATER DISCHARGES AND TO REDUCE OR PREVENT POLLUTANTS FROM CONTACTING NON-STORM WATER DISCHARGES.

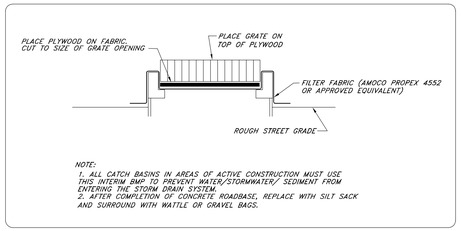
NON-VISIBLE POLLUTANT MONITORING REQUIREMENTS
1. RISK LEVEL 2 DISCHARGERS SHALL COLLECT ONE OR MORE SAMPLES DURING ANY BREACH, MALFUNCTION, LEAKAGE, OR SPILL OBSERVED DURING A VISUAL INSPECTION WHICH COULD RESULT IN THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS THAT WOULD NOT B


'TRACKING' WITH MACHINERY UP AND DOWN THE SLOPE PROVIDES GROOVES THAT WILL CATCH SEED, RAINFALL AND REDUCE RUNOFF.
TRACKING

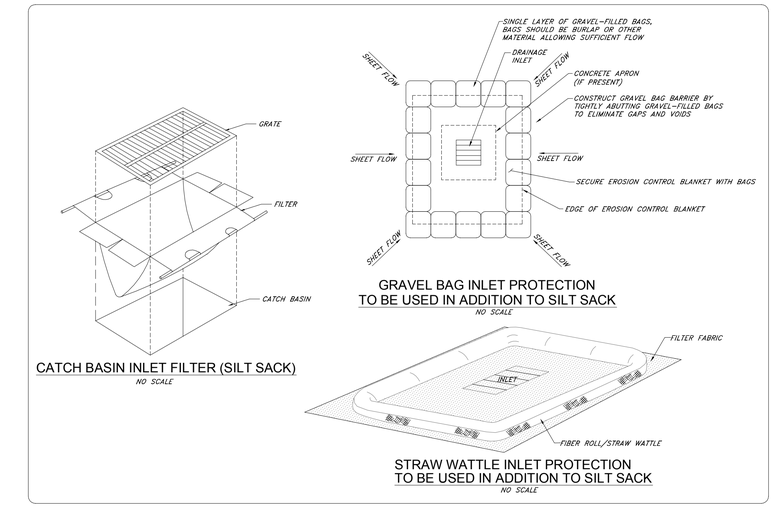
1 SURFACE ROUGHENING
NO SCALE


BAGS SHOULD BE BURLAP OR OTHER MATERIAL ALLOWING SUFFICIENT FLOW
16"
3'
GRAVEL BAGS
NOTE:
16" HEIGHT MAY BE REDUCED TO 8" HEIGHT ON INTERIM BASIS FOR VEHICLE TRAVEL. CHECK DAM SHOULD EXTEND ENTIRE WIDTH OF ROADWAY.

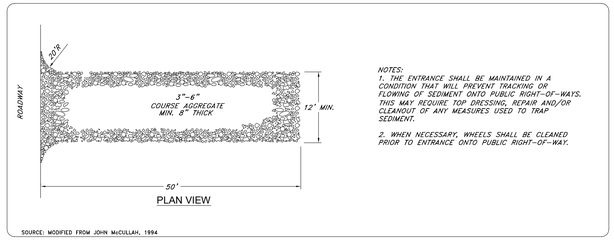
2 GRAVEL BAG CHECK DAM FOR ROUGH GRADED ROADWAYS
NO SCALE


PLACE PLYWOOD ON FABRIC. CUT TO SIZE OF GRATE OPENING
PLACE GRATE ON TOP OF PLYWOOD
FILTER FABRIC (AMOCO PROPEX 4552 OR APPROVED EQUIVALENT)
ROUGH STREET GRADE
NOTE:
1. ALL CATCH BASINS IN AREAS OF ACTIVE CONSTRUCTION MUST USE THIS INTERIM BMP TO PREVENT WATER/STORMWATER/ SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.
2. AFTER COMPLETION OF CONCRETE ROADBASE, REPLACE WITH SILT SACK AND SURROUND WITH WATTLE OR GRAVEL BAGS.

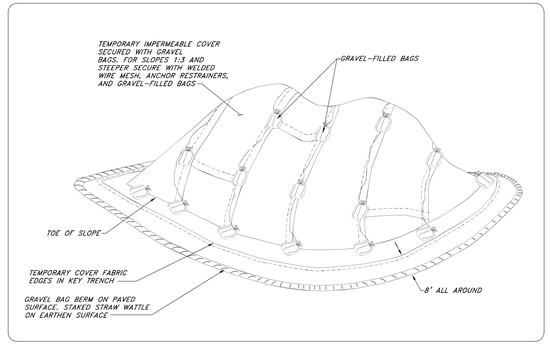
3 INLET PROTECTION IN ACTIVE CONSTRUCTION AREAS
NO SCALE


GRATE
FILTER
CATCH BASIN
CATCH BASIN INLET FILTER (SILT SACK)
NO SCALE
SINGLE LAYER OF GRAVEL-FILLED BAGS, BAGS SHOULD BE BURLAP OR OTHER MATERIAL ALLOWING SUFFICIENT FLOW
DRAINAGE INLET
SHEET FLOW
CONCRETE APRON (IF PRESENT)
CONSTRUCT GRAVEL BAG BARRIER BY TIGHTLY ABUTTING GRAVEL-FILLED BAGS TO ELIMINATE GAPS AND VOIDS
SECURE EROSION CONTROL BLANKET WITH BAGS
EDGE OF EROSION CONTROL BLANKET
GRAVEL BAG INLET PROTECTION
TO BE USED IN ADDITION TO SILT SACK
NO SCALE
FILTER FABRIC
INLET
FIBER ROLL/STRAW WATTLE
STRAW WATTLE INLET PROTECTION
TO BE USED IN ADDITION TO SILT SACK
NO SCALE

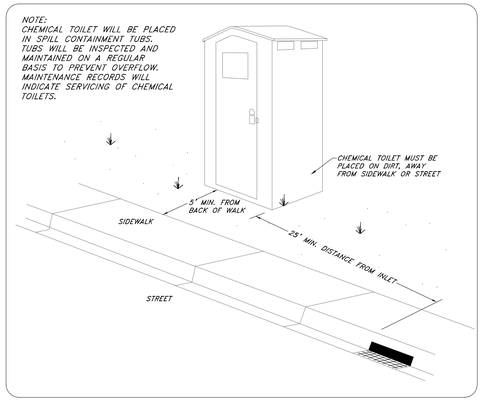
4 INLET PROTECTION IN NON-ACTIVE CONSTRUCTION AREAS
NO SCALE


ROADWAY
10'R
3"-6" COURSE AGGREGATE MIN. 8" THICK
12' MIN.
50'
PLAN VIEW
NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
SOURCE: MODIFIED FROM JOHN McCULLAH, 1994

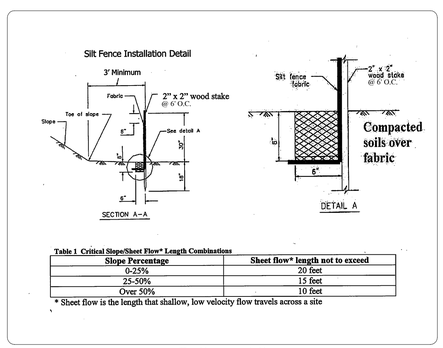
5 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT
NO SCALE


TEMPORARY IMPERMEABLE COVER SECURED WITH GRAVEL BAGS. FOR SLOPES 1:3 AND STEEPER SECURE WITH WELDED WIRE MESH, ANCHOR RESTRAINERS, AND GRAVEL-FILLED BAGS
GRAVEL-FILLED BAGS
TOE OF SLOPE
TEMPORARY COVER FABRIC EDGES IN KEY TRENCH
GRAVEL BAG BERM ON PAVED SURFACE, STAKED STRAW WATTLE ON EARTHEN SURFACE
8' ALL AROUND

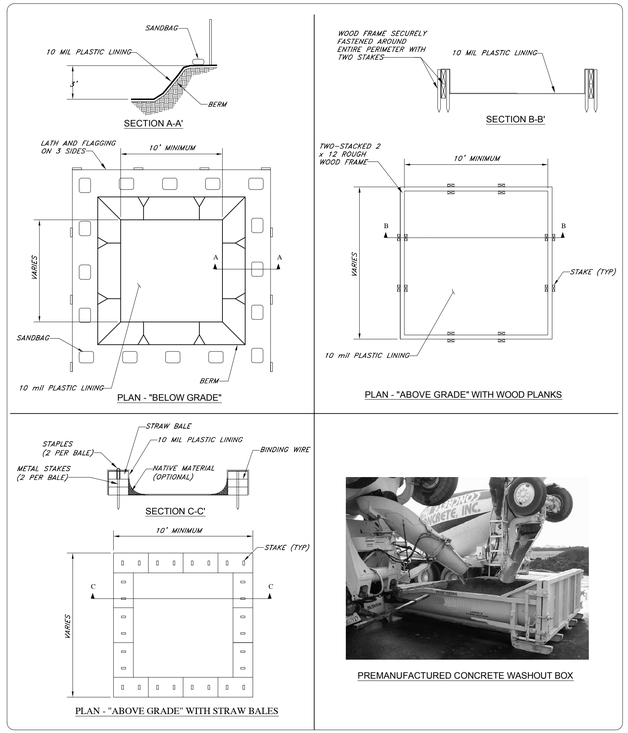
6 TEMPORARY COVER ON STOCKPILE
NO SCALE


NOTE:
CHEMICAL TOILET WILL BE PLACED IN SPILL CONTAINMENT TUBS. TUBS WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS TO PREVENT OVERFLOW. MAINTENANCE RECORDS WILL INDICATE SERVICING OF CHEMICAL TOILETS.
CHEMICAL TOILET MUST BE PLACED ON DIRT, AWAY FROM SIDEWALK OR STREET
5' MIN. FROM BACK OF WALK
SIDEWALK
25' MIN. DISTANCE FROM INLET
STREET

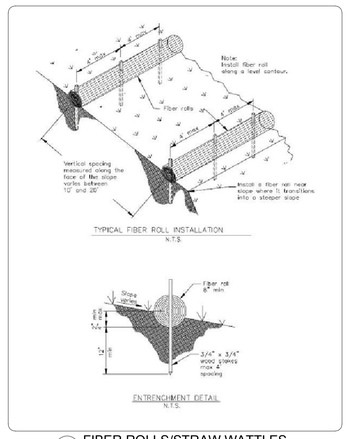
7 CHEMICAL TOILET
NO SCALE



8 SILT FENCE
NO SCALE



9 CONCRETE WASTE MANAGEMENT
NO SCALE


Note: Install fiber roll along a level contour.
Fiber rolls
Vertical spacing measured along the face of the slope varies between 10' and 20'
Install a fiber roll near slope where it transitions into a steeper slope
TYPICAL FIBER ROLL INSTALLATION
N.T.S.
Slope
Fiber roll 8" min
3/4" x 3/4" WOOD STAKES max 4' spacing
ENTRENCHMENT DETAIL
N.T.S.

10 FIBER ROLLS/STRAW WATTLES
NO SCALE

332 PINE STREET
SUITE 300
SAN FRANCISCO, CALIFORNIA 94104
(415) 284-9900
FAX: (888) 279-2698
ENGEO Expect Excellence
SAN RAMON · SAN JOSE · SAN FRANCISCO · OAKLAND · ROCKLIN · RIPON
SANTA CLARITA · IRVINE · NEW ZEALAND

BMP DETAILS
EROSION AND SEDIMENT CONTROL PLAN
PARCEL 'A', HUNTERS POINT SHIPYARD
PHASE ONE OPEN SPACE
SAN FRANCISCO, CALIFORNIA

DESIGNED BY: JB
DRAWN BY: PC
CHECKED BY: SAP
DATE: MARCH 2014
SCALE: AS SHOWN

REV.	DATE	DESCRIPTION	BY
-			

SHEET NUMBER
ER2.0
OF 4 SHEETS
PROJECT NO.
5638.617.014

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED, WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

N

40 20 0 40

SCALE IN FEET

NOTES:

1. CONCRETE WASTE MANAGEMENT, MATERIAL STORAGE AND SOLID WASTE MANAGEMENT SHALL BE CONDUCTED IN CONFORMANCE WITH THE SITE STORMWATER POLLUTION PREVENTION PLAN DURING ALL CONSTRUCTION ACTIVITIES.

2. ALL EXPOSED SLOPES SHALL BE COVERED PRIOR TO RAIN EVENTS.

LEGEND

- LIMITS OF DISTURBED/CONSTRUCTION AREA
- HYDROSEED OR FINISHED LANDSCAPE WITH FIBER ROLL PER TABLE 1, SHEET E-1
- HARDSCAPE
- STABILIZED CONSTRUCTION ENTRANCE/ROADWAY
- DIRECTION OF DRAINAGE FLOW
- SM — STOCKPILE MANAGEMENT AREA (SEE DETAIL 7, SHEET E-2)
- SILT FENCE (SEE DETAIL 9, SHEET E-2)
- GBB — GRAVEL BAG BERMS (SEE DETAIL 2, SHEET E-2)
- FR — STRAW WATTLES/FIBER ROLLS (SEE DETAIL 11, SHEET E-2)
- CHEMICAL TOILET (SEE DETAIL 7, SHEET E-2)
- STORM DRAIN INLET PROTECTION (SEE DETAILS 3 AND 4, SHEET E-2)

332 PINE STREET
SUITE 300
SAN FRANCISCO, CALIFORNIA 94104
(415) 284-9900
FAX (888) 279-2698

ENGEO Expect Excellence

SAN RAMON - SAN JOSE - SAN FRANCISCO - OAKLAND - RODKLIN - RIPON
SANTA CLARITA - IRVINE - NEW ZEALAND

PLAN - HILLPOINT PARK

EROSION AND SEDIMENT CONTROL PLAN
PARCEL 'A', HUNTERS POINT SHIPYARD
PHASE ONE OPEN SPACE
SAN FRANCISCO, CALIFORNIA

DESIGNED BY: JB
DRAWN BY: PC
CHECKED BY: SAP
DATE: MARCH 2014
SCALE: AS SHOWN

REV.	DATE	DESCRIPTION	BY
1			

SHEET NUMBER
ER3.0
OF 4 SHEETS

PROJECT NO.
5638.617.014

COPYRIGHT © 2014 BY ENGEO INCORPORATED. THIS DOCUMENT MAY NOT BE REPRODUCED IN WHOLE OR IN PART BY ANY MEANS WHATSOEVER, NOR MAY IT BE QUOTED OR EXCERPTED WITHOUT THE EXPRESS WRITTEN CONSENT OF ENGEO INCORPORATED.

ENGEO INCORPORATED

Hunters Point Shipyard Development Project
SWPPP Amendment Log

Hunters Point Shipyard Development Project
SWPPP Amendment Log

Amendment No.	Date	Describe Change	Prepared By
001	03/07/14	1. Revised Construction Schedule • 04/01/14 - Start Construction of Innes Court and Hillpoint Park • 10/15/14 – Finish Construction of Innes Court and Hillpoint Park 2. Erosion and Sediment Control Plans • Innes Court and Hillpoint Park at Hunters Point Shipyard (Sheets ER1.0, ER2.0, ER3.0, and ER4.0)	ENGEO